

Recap on Asphalt concrete

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Prompt

List down 5 things you learned about **asphalt concrete**. Discuss each one briefly (2-3 short sentences)

Answer

1. Asphalt concrete is called multiple names around the world.
 - a. Asphalt concrete is commonly called asphalt, blacktop, or pavement in North America, and tarmac or bitumen macadam in UK. This could be a cause for confusion since the same thing is called different names.
2. There are two types of asphalt concrete plant.
 - a. They are drum plant and batch plant. The difference between a drum plant and a batch plant is that the batch plant has a batch tower while a drum plant does not.
3. Asphalt concrete could be differentiated based on the temperature they are heated during manufacturing and the things that are added inside them.
 - a. Hot and Warm mix asphalt concrete are heated to a temperature of 150 °F and 100 °F, respectively. Cold mix, cut-back and mastic concrete are made by adding soap, kerosene, and air, respectively.
4. Asphalt concrete is not used in pavement alone but is added also with other components.
 - a. The layers of a pavement, from top to bottom, is as follows: pavers, paver base, base course, subbase, and subgrade. Asphalt concrete is only used in pavers and paver base.
5. Hot mix asphalt concrete has high durability but takes longer before the surface that it is applied to could be used.
 - a. Hot mix asphalt concrete is good for creating roads, but it takes a long time before the road could be usable. Cold mix asphalt concrete is preferable if only small repairs need to be done. Cut-back asphalt concrete could be used alternatively to cold mix asphalt concrete but it is not usually used today for small repairs since cut-back asphalt concrete emits toxic fumes upon its application to the road – which harms the health of the workers.